In the Abstract:

On page 17, please amend the current Abstract section as follows:

Hall Sensor Array for Measuring a Magnetic Field with Offset Compensation

ABSTRACT

A Hall sensor array for offset-compensated magnetic field measurement comprises a first (1A, 1B) and at least one additional pair (2A, 2B; 2A, 2B, 3A, 3B) of Hall sensor elements. Each Hall sensor element (1A, 1B, 2A, 2B; 1A, 1B, 2A, 2B, 3A, 3B) has four terminals (K1, K2, K3, K4), of which two a first and a third terminal (K1, K3) act as power supply terminals for supplying an operating current (Ieperation) and two a second and a fourth terminal (K2, K4) act as measurement terminals for measuring a Hall voltage (UHall). Respective first supply terminals of each Hall sensor element are connected together and to a first terminal of a common voltage source and respective second supply terminals of each Hall sensor element are connected together and to a second terminal of the common voltage source so that the common voltage source supplies an operating current for the Hall sensor elements. The Hall sensor elements (1A, 1B, 2A, 2B; 1A, 1B, 2A, 2B, 3A, 3B) are operated in the spinning current mode so that the offset voltages of the Hall sensor elements approximately cancel one another out in a revolution so that the Hall signal contributions which actually depend on the magnetic field remain so arranged that the current directions of the operating ourrent (Ioperation) in the two Hall sensor elements of each pair are offset at an angle of approximately 90° to one another. The Hall sensor elements (2A, 2B; 2A, 2B, 3A, 3B) of the additional pair(s) are so arranged that their operating current directions are offset at an angle of approximately 90°/n to the operating current directions of the first pair (1A, 1B) of Hall sensor elements, n being the total number of Hall sensor element pairs and $n \ge 2$. The first terminals (K1); the third terminals (K3), the second terminals (K2) and the fourth terminals (K4) of the Hall-sensor elements (1A, 1B, 2A, 2B; 1A, 1B, 2A, 2B, 3A, 3B) are respectively connected to each other electrically. The operating current (Ieperation) can thus be supplied over the first and third terminals (K1, K3) of all the Hall sensor elements and the Hall voltage (Unot) can be measured over the second and fourth terminals (K2, K4) of all the Hall sensor elements (1A, 1B, 2A, 2B; 1A, 1B, 2A, 2B, 3A, 3B).